=> d his

FILE 'CAPLUS' ENTERED AT 10:54:25 ON 29 JAN 2004

L1 1037 S ASPARTOKINASE OR (ASPART? (2W) KINASE)
L2 178 S (ASPART? (2W) SEMIALDEHYDE (2W) DEHYDROGENASE)
L3 7 S DIHYDROPICOLINATE (2W) REDUCTASE
L4 90 S DIHYDRODIPICOLINATE (2W) REDUCTASE
L5 17 S L1 AND L2 AND L4
L6 6 S (LYCC OR ASK) AND ASD AND DAPB
L7 19 S L5 OR L6

L7 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2003:203315 CAPLUS
TI Corynebacterium glutamicum genes homologous to genes of methionine metabolism and their use in engineering microbial metabolism
IN Pompejus, Markus; Kroger, Burkhard; Schroder, Hartwig; Zelder, Oskar; Haberhauer, Gregor; Kim, Jun-won; Lee, Heung-shick; Hwang, Byung-joon
SO U.S. Pat. Appl. Publ., 214 pp., Cont.-in-part of U.S. Ser. No. 606,740.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003049804	A1	20030313	US 2000-746660	20001222
PRAI	US 1999-141031P	P	19990625		
	US 1999-142101P	P	19990702		
	DE 1999-19931420	A	19990708		
	US 1999-148613P	P	19990812		
	US 2000-187970P	P	20000309		
	US 2000-603124	A2	20000623		
	US 2000-606740	A2	20000623		

L7 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:637692 CAPLUS
TI Use of ask, asd, dapB, ddh, and lysA genes for improved L-lysine fermentation in Corynebacterium glutamicum
IN Li, Lhing-yew; Trei, Kelli Jean
SO PCT Int. Appl., 97 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002064610	A1	20020822	WO 2002-US3469	20020208
	US 2003055232	A1	20030320	US 2002-67974	20020208
	EP 1368367	A1	20031210	EP 2002-709367	20020208
	NO 2003003452	A	20031007	NO 2003-3452	20030804
PRAI	US 2001-267183P	P	20010208		
	WO 2002-US3469	W	20020208		

L7 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:709790 CAPLUS
TI Corynebacterium dapC gene and transaminase and recombinant coryneform bacteria for L-lysine preparation
IN Moeckel, Bettina; Weissenborn, Anke; Pfefferle, Walter; Hartmann, Michael; Kalinowski, Joern; Puehler, Alfred
PA Degussa-Huels A.-G., Germany
SO Eur. Pat. Appl., 24 pp.
LA German

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1136559	A2	20010926	EP 2001-103850	20010216
	EP 1136559	A3	20031210		
	DE 10014546	A1	20010927	DE 2000-10014546	20000323
	CA 2339307	AA	20010923	CA 2001-2339307	20010321
	AU 2001028163	A5	20020725	AU 2001-28163	20010321
	ZA 2001002385	A	20010926	ZA 2001-2385	20010322
	JP 2001299372	A2	20011030	JP 2001-83004	20010322
	CN 1319668	A	20011031	CN 2001-110011	20010322
	US 2001049123	A1	20011206	US 2001-813919	20010322
	BR 2001001151	A	20011030	BR 2001-1151	20010323
PRAI	DE 2000-10014546	A	20000323		

L7 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:676795 CAPLUS
TI Corynebacterium glutamicum genes encoding metabolic pathway proteins
IN Pompejus, Markus; Kroeger, Burkhard; Schroeder, Hartwig; Zelder, Oskar; Haberhauer, Gregor; Kim, Jun-Won; Lee, Heung-Shick; Hwang, Byung-Joon
SO PCT Int. Appl., 316 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001066573	A2	20010913	WO 2000-IB2035	20001222
	WO 2001066573	A3	20020510		
	EP 1261718	A2	20021204	EP 2000-987602	20001222
	BR 2000017148	A	20030311	BR 2000-17148	20001222
	JP 2003525623	T2	20030902	JP 2001-565737	20001222
PRAI	US 2000-187970P	P	20000309		
	US 2000-606740	A	20000623		
	WO 2000-IB2035	W	20001222		

L7 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:634531 CAPLUS
TI Analysis of the chromosome sequence of the legume symbiont Sinorhizobium meliloti strain 1021
AU Capela, Delphine; Barloy-Hubler, Frederique; Gouzy, Jerome; Bothe, Gordana; Ampe, Frederic; Batut, Jacques; Boistard, Pierre; Becker, Anke; Boutry, Marc; Cadieu, Edouard; Dreano, Stephane; Gloux, Stephanie; Godrie, Therese; Goffeau, Andre; Kahn, Daniel; Kiss, Erno; Lelaure, Valerie; Masuy, David; Pohl, Thomas; Portetelle, Daniel; Puhler, Alfred; Purnelle, Benedicte; Ramsperger, Ulf; Renard, Clotilde; Thebault, Patricia; Vandenbol, Micheline; Weidner, Stefan; Galibert, Francis
SO Proceedings of the National Academy of Sciences of the United States of America (2001), 98(17), 9877-9882

L7 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:545833 CAPLUS
TI L-lysine production in genetically engineered Escherichia with remission of the feedback inhibition
IN Nakanishi, Kazuo; Kikuchi, Yoshimi; Kojima, Junichiro; Suzuki, Tomoko; Nishimura, Yasushi; Kojima, Hiroyuki
PA Ajinomoto Co., Inc., Japan
SO PCT Int. Appl., 58 pp.
LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001053459	A1	20010726	WO 2000-JP298	20000121
	AU 2000030762	A5	20010731	AU 2000-30762	20000121
	BR 2000016995	A	20021029	BR 2000-16995	20000121
	EP 1253195	A1	20021030	EP 2000-900872	20000121
PRAI	WO 2000-JP298	A	20000121		

L7 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:507854 CAPLUS
TI Increased lysine production by transformation of construct expressing multi-genes involved in lysine biosynthesis in Corynebacterium
IN Hanke, Paul D.; Li-D'Elia, Lhing-Yew; Rayapati, John
PA Archer-Daniels-Midland Company, USA
SO PCT Int. Appl., 158 pp.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001049854	A2	20010712	WO 2000-US35617	20001229
	WO 2001049854	A3	20020613		
	BR 2000016833	A	20021001	BR 2000-16833	20001229
	EP 1246921	A2	20021009	EP 2000-989600	20001229
	JP 2004500072	T2	20040108	JP 2001-550382	20001229
PRAI	US 1999-173707P	P	19991230		
	US 2000-184130P	P	20000222		
	US 2000-722441	A	20001128		
	WO 2000-US35617	W	20001229		

L7 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:335521 CAPLUS
TI Development and validation of Corynebacterium DNA microarrays
AU Loos, Andrea; Glanemann, Christoph; Willis, Laura B.; O'Brien, Xian M.; Lessard, Philip A.; Gerstmeir, Robert; Guillouet, Stephane; Sinskey, Anthony J.
SO Applied and Environmental Microbiology (2001), 67(5), 2310-2318

L7 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:324284 CAPLUS
TI Corynebacterium thermoaminogenes thermostable L-lysine biosynthesis genes
IN Itaya, Hiroshi; Kimura, Eiichiro; Kawahara, Yoshio; Sugimoto, Shinichi
PA Ajinomoto Co., Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 27 pp.
LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001120270	A2	20010508	JP 1999-311148	19991101
PRAI	JP 1999-311148		19991101		

L7 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:742218 CAPLUS
TI L-Amino acid production in Methylophilus bacteria with enhanced dihydrodipicolinate synthase and aspartokinase activity
IN Gunji, Yoshiya; Yasueda, Hisashi; Sugimoto, Shinichi; Tsujimoto, Nobuharu; Shimaoka, Megumi; Miyata, Yuri; Oba, Manami
PA Ajinomoto Co., Inc., Japan
SO PCT Int. Appl., 92 pp.
LA Japanese

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000061723	A1	20001019	WO 2000-JP2295	20000407
	BR 2000009550	A	20020205	BR 2000-9550	20000407
	EP 1188822	A1	20020320	EP 2000-915436	20000407
PRAI	JP 1999-103143	A	19990409		
	JP 1999-169447	A	19990616		
	JP 1999-368097	A	19991224		
	WO 2000-JP2295	W	20000407		

L7 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:231967 CAPLUS
TI Functional analysis of gapped microbial genomes: amino acid metabolism of Thiobacillus ferrooxidans
AU Selkov, Evgeni; Overbeek, Ross; Kogan, Yakov; Chu, Lien; Vonstein, Veronika; Holmes, David; Silver, Simon; Haselkorn, Robert; Fonstein, Michael
SO Proceedings of the National Academy of Sciences of the United States of America (2000), 97(7), 3509-3514

L7 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:184754 CAPLUS
TI Determination of the carbon flux in the central metabolism of Corynebacterium glutamicum by 13C-isotope analysis
AU Marx, Achim
SO Berichte des Forschungszentrums Juelich (1997), Juel-3459, 1-111 pp.
LA German

L7 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:465660 CAPLUS
TI Control of the lysine biosynthesis sequence in Corynebacterium glutamicum as analyzed by overexpression of the individual corresponding genes
AU Cremer, Josef; Eggeling, Lothar; Sahm, Hermann
SO Applied and Environmental Microbiology (1991), 57(6), 1746-52

L7 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:180832 CAPLUS
TI Enzymes of lysine synthesis
AU Bonner, P. L. R.; Lea, P. J.
SO Methods in Plant Biochemistry (1990), 3, 297-313

L7 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1989:628745 CAPLUS
TI In vitro reconstitution of the diaminopimelate pathway
AU Laber, B.; Amrhein, N.
SO BCPC Monograph (1989), 42(Prospects Amino Acid Biosynth. Inhib. Crop Prot. Pharm. Chem.), 81-3

L7 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1989:111472 CAPLUS
TI Regulation of enzymes of lysine biosynthesis in Corynebacterium glutamicum
AU Cremer, Josef; Treptow, C.; Eggeling, L.; Sahm, H.
SO Journal of General Microbiology (1988), 134(12), 3221-9

WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Thursday, January 29, 2004

Hide?	Set Name	Query	Hit Count
	DB=PGPB,USPT,EPAB,JPAB,DWPI; PLUR=YES; OP=OR		
☐	L12	L11 or l10	13
☐	L11	(ask or lycc) and asd and dapb	10
☐	L10	L9 and l8 and l7	3
☐	L9	dihydropicolin$ adj2 reductase	12
☐	L8	aspart$ adj2 dehydrogenase	150
☐	L7	aspartokinase or (aspart$ adj2 kinase)	494
	DB=DWPI; PLUR=YES; OP=OR		
☐	L6	aspartokinase.ti. and hanke$.in.	1
☐	L5	aspartokinase.ti.	17
☐	L4	feedback adj2 resistan$ adj2 aspartokinase	0
☐	L3	feedback adj2 resistant adj2 aspartokinase	0
☐	L2	(feedback adj2 resistant adj2 aspartokinase).ti.	0
☐	L1	(feedback resistant aspartokinase).ti.	136732

END OF SEARCH HISTORY

NCBI Taxonomy Browser

Entrez PubMed Nucleotide Protein Genome Structure PMC Taxonomy Books

Search for as complete name lock Go Clear

Display 3 levels using filter: none

Corynebacterium glutamicum

Taxonomy ID: 1718
Rank: species
Genetic code: Translation table 11
Other names:

synonym: **Micrococcus glutamicus**
synonym: **Corynebacterium lilium**
synonym: **Brevibacterium divaricatum**
synonym: **Micrococcus maripuniceus**
synonym: **Brevibacterium thiogenitalis**
synonym: **Brevibacterium taipei**
synonym: **Brevibacterium seonmiso**
synonym: **Brevibacterium saccharolyticum**
synonym: **Brevibacterium glutamigenes**
synonym: **Brevibacterium chang-fua**
synonym: **'Brevibacterium lactofermentum'**
synonym: **'Corynebacterium lactofermentum'**
synonym: **Brevibacterium lactofermentum**
synonym: **Corynebacterium lactofermentum**
synonym: **Corynebacterium lilium Lee and Good 1963 (Approved Lists 1980)**
synonym: **Brevibacterium divaricatum Su and Yamada 1960 (Approved Lists 1980)**
synonym: **"Micrococcus glutamicus" Kinoshita et al. 1958**
synonym: **Corynebacterium glutamicum (Kinoshita et al. 1958) Abe et al. 1967**
synonym: **Microbacterium sp. ATCC 15283**
includes: **Brevibacterium sp. ATCC 19165**
includes: **Arthrobacter sp. NCIB 9666**

Lineage(full)

cellular organisms; Bacteria; Actinobacteria; Actinobacteria (class); Actinobacteridae; Actinomycetales; Corynebacterineae; Corynebacteriaceae; Corynebacterium

Entrez records

Database name	Subtree links	Direct links
Nucleotide	6,979	6,950
Protein	13,031	3,874
Structure	4	4
Genome	13	12
Popset	1	1
3D Domains	21	21
PubMed Central	399	399
Gene	3,081	88
Taxonomy	2	1

NCBI Taxonomy Browser

Entrez PubMed Nucleotide Protein Genome Structure PMC Taxonomy Books

Search for [ ] as [complete name] lock Go Clear

Display [3] levels using filter: [none]

Nucleotide Protein Structure Genome Popset SNP
3D Domains Domains GEO Datasets GEO Expressions UniGene UniSTS
PubMed Central Gene MapView LinkOut BLAST TRACE

Lineage (full): root; cellular organisms; Bacteria; Actinobacteria; Actinobacteria (class); Actinobacteridae; Actinomycetales; Corynebacterineae; Corynebacteriaceae

---

- **Corynebacterium** LinkOut *Click on organism name to get more information.*
  - **Brevibacterium flavum**
  - **Corynebacterium accolens** LinkOut
  - **Corynebacterium acetoacidophilum**
  - **Corynebacterium afermentans**
    - **Corynebacterium afermentans subsp. afermentans** LinkOut
    - **Corynebacterium afermentans subsp. lipophilum** LinkOut
  - **Corynebacterium ammoniagenes** LinkOut
  - **Corynebacterium amycolatum** LinkOut
  - **Corynebacterium appendicis** LinkOut
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  - **Corynebacterium aquilae** LinkOut
  - **Corynebacterium argentoratense** LinkOut
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  - **Corynebacterium aurimucosum** LinkOut
  - **Corynebacterium auris** LinkOut
  - **Corynebacterium auriscanis** LinkOut
  - **Corynebacterium bovis** LinkOut
  - **Corynebacterium callunae** LinkOut
  - **Corynebacterium camporealensis** LinkOut
  - **Corynebacterium capitovis** LinkOut
  - **Corynebacterium casei** LinkOut
  - **Corynebacterium caspium**
  - **Corynebacterium cervicis**
  - **Corynebacterium confusum** LinkOut
  - **Corynebacterium coyleae** LinkOut
  - **Corynebacterium crenatum**
  - **Corynebacterium cystitidis** LinkOut
  - **Corynebacterium diphtheriae** LinkOut BLAST
  - **Corynebacterium durum** LinkOut
  - **Corynebacterium efficiens** LinkOut

- **Corynebacterium efficiens YS-314** BLAST
- **Corynebacterium falsenii** LinkOut
- **Corynebacterium fastidiosum**
- **Corynebacterium felinum** LinkOut
- **Corynebacterium flavescens** LinkOut
- **Corynebacterium freneyi** LinkOut
- **Corynebacterium genitalium**
- **Corynebacterium glaucum** LinkOut
- **Corynebacterium glucuronolyticum** LinkOut
- **Corynebacterium glutamicum** LinkOut
  - **Corynebacterium glutamicum ATCC 13032** BLAST
- **Corynebacterium halotolerans**
- **Corynebacterium imitans** LinkOut
- **Corynebacterium jeikeium** LinkOut
- **Corynebacterium kroppenstedtii** LinkOut
- **Corynebacterium kutscheri** LinkOut
- **Corynebacterium lipophiloflavum** LinkOut
- **Corynebacterium macginleyi** LinkOut
- **Corynebacterium mastitidis** LinkOut
- **Corynebacterium matruchotii** LinkOut
- **Corynebacterium melassecola**
- **Corynebacterium minutissimum** LinkOut
- **Corynebacterium mooreparkense** LinkOut
- **Corynebacterium mucifaciens** LinkOut
- **Corynebacterium mycetoides** LinkOut
- **Corynebacterium nephridii**
- **Corynebacterium nigricans**
- **Corynebacterium phocae** LinkOut
- **Corynebacterium pilosum** LinkOut
- **Corynebacterium propinquum** LinkOut
- **Corynebacterium pseudodiphtheriticum** LinkOut
- **Corynebacterium pseudogenitalium**
- **Corynebacterium pseudotuberculosis** LinkOut
- **Corynebacterium renale** LinkOut
- **Corynebacterium riegelii** LinkOut
- **Corynebacterium segmentosum**
- **Corynebacterium simulans** LinkOut
- **Corynebacterium singulare** LinkOut
- **Corynebacterium sphenisci** LinkOut
- **Corynebacterium spheniscorum** LinkOut
- **Corynebacterium striatum** LinkOut
- **Corynebacterium suicordis** LinkOut

- **Corynebacterium sundsvallense** LinkOut
- **Corynebacterium terpenotabidum** LinkOut
- **Corynebacterium testudinoris** LinkOut
- **Corynebacterium thermoaminogenes**
- **Corynebacterium thomssenii** LinkOut
- **Corynebacterium tuberculostearicum**
- **Corynebacterium ulcerans** LinkOut
- **Corynebacterium urealyticum** LinkOut
- **Corynebacterium variabile** LinkOut
- **Corynebacterium vitaeruminis** LinkOut
- **Corynebacterium xerosis** LinkOut
- **Corynebacterium sp.**
- **Corynebacterium sp. 'CDC B8037'**
- **Corynebacterium sp. 'Mali 15'**
- **Corynebacterium sp. 'Mali 24'**
- **Corynebacterium sp. 'Mali 33'**
- **Corynebacterium sp. 'Mali 339'**
- **Corynebacterium sp. 'Smarlab BioMol-2301292'**
- **Corynebacterium sp. 'Triatoma infestans'**
- **Corynebacterium sp. 2-4-1**
- **Corynebacterium sp. 2002-2300500**
- **Corynebacterium sp. 2002-79006**
- **Corynebacterium sp. 2301292**
- **Corynebacterium sp. 415C02**
- **Corynebacterium sp. 47081**
- **Corynebacterium sp. 61720**
- **Corynebacterium sp. 61722**
- **Corynebacterium sp. 96447**
- **Corynebacterium sp. 979**
- **Corynebacterium sp. ALY-1**
- **Corynebacterium sp. ATCC 43833**
- **Corynebacterium sp. CIP101775**
- **Corynebacterium sp. CIP102076**
- **Corynebacterium sp. CIP102124**
- **Corynebacterium sp. CIP102211**
- **Corynebacterium sp. CIP102346**
- **Corynebacterium sp. CIP102590**
- **Corynebacterium sp. CIP102622**
- **Corynebacterium sp. CIP102645**
- **Corynebacterium sp. CIP102857**
- **Corynebacterium sp. CIP107067**
- **Corynebacterium sp. CIP107291**

- Corynebacterium sp. dulse 11
- Corynebacterium sp. IC10
- Corynebacterium sp. IrT-R5M2-141
- Corynebacterium sp. oral strain A43SC
- Corynebacterium sp. P-1
- Corynebacterium sp. QSSC3-5
- Corynebacterium sp. ST-10
- Corynebacterium sp. YM204B
- environmental samples
  - uncultured Corynebacterium CB1
  - uncultured Corynebacterium CB10
  - uncultured Corynebacterium CB2
  - uncultured Corynebacterium CB3
  - uncultured Corynebacterium CB4
  - uncultured Corynebacterium CB5
  - uncultured Corynebacterium CB6
  - uncultured Corynebacterium CB7
  - uncultured Corynebacterium CB8
  - uncultured Corynebacterium CB9
  - Corynebacterium sp. oral clone AK153
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  - uncultured Corynebacterium sp. MT11A
  - uncultured Corynebacterium sp. MT12R
  - uncultured Corynebacterium sp. MT13M86
  - uncultured Corynebacterium sp. MT17L
  - uncultured Corynebacterium sp. MT1P
  - uncultured Corynebacterium sp. MT20T
  - uncultured Corynebacterium sp. MT25Y
  - uncultured Corynebacterium sp. MT28T
  - uncultured Corynebacterium sp. MT2R
  - uncultured Corynebacterium sp. MT30Y
  - uncultured Corynebacterium sp. MT4P
  - uncultured Corynebacterium sp. MT7ER
  - uncultured Corynebacterium sp. MT8R
  - uncultured Corynebacterium sp. MT9M86
  - uncultured Corynebacterium sp. MTcory11W
  - uncultured Corynebacterium sp. MTcory13R
  - uncultured Corynebacterium sp. MTcory14R
  - uncultured Corynebacterium sp. MTcory16R
  - uncultured Corynebacterium sp. MTcory17R
  - uncultured Corynebacterium sp. MTcory19R
  - uncultured Corynebacterium sp. MTcory1P

- **uncultured Corynebacterium sp. MTcory20R**
- **uncultured Corynebacterium sp. MTcory21R**
- **uncultured Corynebacterium sp. MTcory24T**
- **uncultured Corynebacterium sp. MTcory2P**
- **uncultured Corynebacterium sp. MTcory3P**
- **uncultured Corynebacterium sp. MTcory5K**
- **uncultured Corynebacterium sp. MTcory8W**
